

Application No. 10/542,917

Reply to Office Action of September 15, 2009

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A conductive polymer gel comprising water as a main component, a conductive conjugated polymer, ~~and at least one of~~ a surfactant and, optionally, an alcohol, wherein an amount of the water in the conductive polymer gel is from 66 weight percent to 98 weight percent, wherein the surfactant is an alkylbenzenesulfonic acid.

Claim 2 (Original): The conductive polymer gel according to claim 1, which further contains an electrolyte.

Claim 3 (Original): The conductive polymer gel according to claim 1, wherein the conductive conjugated polymer is doped with a dopant.

Claim 4 (Original): The conductive polymer gel according to claim 1, wherein the conductive conjugated polymer is polypyrrole or polythiophene.

Claim 5 (Original): The conductive polymer gel according to claim 3, wherein the dopant is polystyrenesulfonic acid.

Claim 6 (Canceled).

Claim 7 (Original): The conductive polymer gel according to claim 1, which contains at least one of a monohydric alcohol having 3 or more carbon atoms and a polyhydric alcohol as the alcohol.

Claims 8-24 (Canceled).

Claim 25 (New): A conductive polymer gel comprising water as a main component, a conductive conjugated polymer, an alcohol selected from the group consisting of a monohydric alcohol, a glycol, a chain polyhydric alcohol, and a cyclic polyhydric alcohol, wherein the alcohol is not a polymeric polyhydric alcohol, and optionally, a surfactant, wherein an amount of the water in the conductive polymer gel is from 66 weight percent to 98 weight percent.

Claim 26 (New): The conductive polymer gel according to claim 25, wherein the alcohol is a monohydric alcohol selected from the group consisting of ethanol, isopropyl alcohol, and butanol.

Claim 27 (New): The conductive polymer gel according to claim 25, wherein the alcohol is a glycol selected from the group consisting of ethylene glycol and propylene glycol.

Claim 28 (New): The conductive polymer gel according to claim 25, wherein the alcohol is a chain polyhydric alcohol selected from the group consisting of glycerin, erythritol, xylytol, and sorbitol.

Claim 29 (New): The conductive polymer gel according to claim 25, wherein the alcohol is a cyclic polyhydric alcohol selected from the group consisting of glucose and sucrose.

Claim 30 (New): The conductive polymer gel according to claim 25, which further contains an electrolyte.

Claim 31 (New): The conductive polymer gel according to claim 25, wherein the conductive conjugated polymer is doped with a dopant.

Claim 32 (New): The conductive polymer gel according to claim 25, wherein the conductive conjugated polymer is polypyrrole or polythiophene.

Claim 33 (New): The conductive polymer gel according to claim 31, wherein the dopant is polystyrenesulfonic acid.

Claim 34 (New): The conductive polymer gel according to claim 25, which contains alkylbenzenesulfonic acid as the surfactant.

Claim 35 (New) The conductive polymer gel according to claim 25, which contains at least one of a monohydric alcohol having 3 or more carbon atoms and a polyhydroic alcohol as the alcohol.